

Date: Fri, 8 Jul 94 10:06:27 PDT  
From: Info-Hams Mailing List and Newsgroup <info-hams@ucsd.edu>  
Errors-To: Info-Hams-Errors@UCSD.Edu  
Reply-To: Info-Hams@UCSD.Edu  
Precedence: Bulk  
Subject: Info-Hams Digest V94 #763  
To: Info-Hams

Info-Hams Digest                      Fri, 8 Jul 94                      Volume 94 : Issue 763

Today's Topics:

                    \* SpaceNews 11-Jul-94 \*  
Amateur calls on auto license plates? (2 msgs)  
                    CW practice program for Sun4?  
Does CW as a pre-req REALLY Work? (2 msgs)  
                    F.E.M.A. Freq.  
                    FIELD DAY 1994 REPORT  
Keyers and Positive/Negative keylines  
                    Legal question  
                    Radios for Emergency Use  
twin diode mixer article: GOT IT, THANKS

Send Replies or notes for publication to: <Info-Hams@UCSD.Edu>  
Send subscription requests to: <Info-Hams-REQUEST@UCSD.Edu>  
Problems you can't solve otherwise to brian@ucsd.edu.

Archives of past issues of the Info-Hams Digest are available  
(by FTP only) from UCSD.Edu in directory "mailarchives/info-hams".

We trust that readers are intelligent enough to realize that all text  
herein consists of personal comments and does not represent the official  
policies or positions of any party. Your mileage may vary. So there.

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Date: 8 Jul 94 15:25:15 GMT  
From: news-mail-gateway@ucsd.edu  
Subject: \* SpaceNews 11-Jul-94 \*  
To: info-hams@ucsd.edu

SB NEWS @ AMSAT \$SPC0711  
\* SpaceNews 11-Jul-94 \*

BID: \$SPC0711

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SpaceNews  
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MONDAY JULY 11, 1994

SpaceNews originates at KD2BD in Wall Township, New Jersey, USA. It is published every week and is made available for unlimited distribution.

\* UNAMSAT-1 NEWS \*  
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David Liberman, XE1TU, reports that the UNAMSAT-1 spacecraft has not yet been launched. A postponement was announced through official correspondence from the Russian Space Agency just a few days before project officials had to depart for Russia, and no statement regarding the length of the delay was mentioned. It has now become apparent that the civil and military crew involved in the launch of UNAMSAT-1 are on summer vacation, possibly delaying the launch until September.

In the mean time, project officials are experimenting with the satellite on the ground, making small adjustments, and testing the satellite for all possible situations. Through this experimentation, a problem with the fire code not resetting the CPU was discovered. All the operating software has been loaded on the satellite and is running well. The BBS is being used by local amateurs with microsat ground stations.

[Info via David, XE1TU of the UNAMSAT-1 Team]

\* AO-13 ATTITUDE CHANGE \*  
=====

The AMSAT-OSCAR-13 satellite has undergone a recent attitude change. The following message issued by spacecraft controller G3RUH explains some of the details:

L QST de G3RUH 1994 Jul 05. Magnetorquing from attitude 243/+5 to 180/0 commences on Jul 07 [Thu] 0510 utc, orbit 4642/224, and continues for 10+ perigees. Estimated interim attitudes are: Orbit Alon/Alat: 4643 235/+4: 4645 221/-2: 4647 211/-10: 4649 205/-10: 4651 193/-12: 4653 181/-13, then a final adjustment. For command purposes during this 4-day period mode-S beacon is ON MA 140-150, i.e. mode-B OFF for 26 mins. The new schedule will start orbit 4651 MA 150 Jul 11 [Mon] 0851 utc. 73 James.

Magnetorquing (attitude changing) is not an exact science, and minor deviations from the above plan sometimes occurs.

Please don't rely on gossip and rumour! Continuous up to date information about AO-13 operations is always available on the beacons, 145.812 MHz or 2400.664 MHz in CW, RTTY and 400 bps PSK. These bulletins are also posted to Internet, ANS, Packet, PacSats etc., and many international newsletters. A 400 bps PSK decoder is available from G3RUH and several DSP products; display software P3C.EXE etc. from many AMSAT groups.

The active command stations are listed below, and constructive feedback about operations is always welcome.

Peter DB2OS @ DB0FAU.#NDS.DEU.EU  
James G3RUH @ GB7DDX.#22.GBR.EU  
Graham VK5AGR @ VK5WI.#ADL.#SA.AUS.OC

The above may also be reached via Internet (callsign@amsat.org) and K0-23. Please remember to state clearly a return address.

[Info via James Miller, G3RUH @ GB7DDX.#22.GBR.EU]

★ LUSAT-OSCAR-19 NEWS ★

=====

The LUSAT-OSCAR-19 satellite continues to operate without its file server running. The following beacon was received from LO-19 by KD2BD in New Jersey last week:

LUSAT-1>AMARG <UI>:

May 21.

OBC crashed on May 17 at +/- 2:45 utc, lat 45s, lon 43 w.  
Only digipeater is available.

LU8DYF, LO-19 command station.

Although the file server is not available, the satellite does function as a digipeater, and other ground stations can be connected to via LUSAT-1.

★ DOVE DECODER AVAILABLE ★

=====

A DOVE-OSCAR-17 satellite telemetry decoding program for the MS-DOS operating system has been created by KD2BD and is now available via anonymous FTP at pilot.njin.net. The program has been compressed into a file called "duvdec10.zip", and is located in the /pub/SpaceNews/software sub-directory at pilot.njin.net.

The program will read and interpret ASCII telemetry transmissions made by

DOVE-OSCAR-17 and generate reports based on that data. The software is free and is intended for non-commercial use.

\* THANKS! \*

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Thanks to all those who sent messages of appreciation to SpaceNews, especially:

GM1SXX    N2SMT    N2WYU    VU3KNA    ZR6AIU    N8BMA    Jay Respler

\* FEEDBACK/INPUT WELCOMED \*

=====

Mail to SpaceNews should be directed to the editor (John, KD2BD) via any of the following paths:

FAX        : 1-908-747-7107

PACKET    : KD2BD @ N2KZH.NJ.USA.NA

INTERNET : kd2bd@ka2qhd.de.com -or- kd2bd@amsat.org

MAIL       : John A. Magliacane, KD2BD  
            Department of Engineering and Technology  
            Advanced Technology Center  
            Brookdale Community College  
            Lincroft, New Jersey 07738  
            U.S.A.

<<= SpaceNews: The first amateur newsletter read in space! -=>>

/EX

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John A. Magliacane, KD2BD    \* /\ /\ \* Voice    : 1-908-224-2948  
Advanced Technology Center |/\ /\ /\ | Packet   : KD2BD @ N2KZH.NJ.USA.NA  
Brookdale Community College |/\ /\ /\ | Internet: magliaco@pilot.njin.net  
Lincroft, NJ 07738           \* /\ /\ \* Morse    : -.- -.. ..--- -.... -..

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Date: 8 Jul 1994 15:38:36 GMT  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!vixen.cso.uiuc.edu!  
usenet.ucs.indiana.edu!master.cs.rose-hulman.edu!news@network.ucsd.edu  
Subject: Amateur calls on auto license plates?  
To: info-hams@ucsd.edu

QST

I haven't had call letter plates (as they are called here in Indiana) for many years.

Reason:

Why advertise that you've got fence-able equipment in your car?

73 de Jack, K9CUN

-----  
Date: 8 Jul 1994 15:46:55 GMT  
From: ihnp4.ucsd.edu!usc!sol.ctr.columbia.edu!usenet.ucs.indiana.edu!  
master.cs.rose-hulman.edu!news@network.ucsd.edu  
Subject: Amateur calls on auto license plates?  
To: info-hams@ucsd.edu

Bill recently sed...

> ...I don't suspect the standard thief would think a call plate to  
> be anything different than a vanity plate...  
-----

Maybe not. But maybe an Icom thief or a Kenwood thief wud. :-)

73 de Jack, K9CUN

-----  
Date: 8 Jul 1994 16:27:34 GMT  
From: ihnp4.ucsd.edu!swrinde!cs.utexas.edu!convex!news.duke.edu!solaris.cc.vt.edu!  
usenet@network.ucsd.edu  
Subject: CW practice program for Sun4?  
To: info-hams@ucsd.edu

In article <1994Jul7.201906.18153@sctc.com> kohn@sctc.com (David Kohn) writes:  
> I'm trying to find a code-drill program for the Sun4 platform.  
> I've seen only PC and mac stuff so far..  
> (And no, the Mac emulator software here doesn't provide audio support.. :( )

There's a program called superior morse for unix boxes. It only has sound support for Sun, HP, and generic X11. The X11 support did not work for me, but I have created a sound support file for NeXT using the NeXT soundkit. It can be found at oak.oakland.edu below the /pub/hamradio directory. Can't recall the exact location, but it's somewhere like programs/unix.

--



Oh yeah, gentle criticism to a lid who lays into you w/the attitudde  
'don't tell me what to do young man, I've been doin dis fer 50 yrs...'.

It's encouraging to see more folks genuinley concerned w/the service, perhaps  
there's hope...

Andy

-----  
Date: 8 Jul 1994 13:44:40 GMT  
From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!howland.reston.ans.net!  
vixen.cso.uiuc.edu!newsfeed.ksu.ksu.edu!moe.ksu.ksu.edu!news.mid.net!  
crcnis1.unl.edu!unlinfo.unl.edu!djw@network.ucsd.edu  
Subject: F.E.M.A. Freq.  
To: info-hams@ucsd.edu

dwilson@s850.mwc.EDU (David L. Wilson) writes:

>The list of FEMA freqs posted to this group contains various error.  
>In particular, who ever typed the list had their right hand placed  
>one key right of where it should be when typind the freq for F-24 to  
>F-27. For example, the day primary calling channel of 10493 was  
>mistyped as 10483. Also, 10194 (mistyped as 10184 was listed twice).  
>--  
>David L. Wilson                   INTERNET: dwilson@s850.mwc.edu  
>Phone: (703)898-1084 (H)   Amateur callsign: AC4IU   G.S.: FM18fg

Nahhhh! That's just BOB GROVE(proper reverence shown)"encoding"  
his frequency lists to make sure nobody rips HIM off!!!! (->

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Date: 8 Jul 94 15:11:18 GMT  
From: ncrwg2.ncr.com!ncrhub2!tdbunews!nsc32!wps@uunet.uu.net  
Subject: FIELD DAY 1994 REPORT  
To: info-hams@ucsd.edu

In article 94Jul5170411@cassandra.bbn.com, levin@bbn.com (Joel B Levin) writes:  
-->In article <2v865b\$i8s@news.icaen.uiowa.edu> drenze@icaen.uiowa.edu (Douglas J  
Renze) writes:  
--> jsalemi@doghouse.win.net (Joe Salemi) writes:  
--> >We also ran 6A, and I do remember contacting a 16A on 40m -- think they  
--> >were from one of the New England states -- Mass. maybe, or VT. We  
--> >also ran into a 15A.  
-->

--> I hit a 14A on 40-m SSB, I believe. Heh, I was a bit shocked when I QSL'd  
 --> it. I can't imagine being on a site with 40 rigs in what sort of radius of  
 --> one another? . . .  
 -->  
 -->OK, it can be told. We were 15A: N1NH, the Nashua Area Radio Club,  
 -->operating out of Hollis, NH (next town over from Nashua). While  
 -->working 75m I contacted a 16A operation in Michigan. Our usual  
 -->competition is a California club which has in the past operated 23A or  
 -->25A. I was told that they were out again this year, but I didn't  
 -->reach anyone that far west this year on my station.  
 -->  
 --> /JBL KD10N  
 -->=  
 -->Nets: levin@bbn.com | "Earn more sessions by sleeving."  
 -->pots: (617)873-3463 |  
 -->ARS: KD10N | -- Roxanne Kowalski

Reaching the west coast is like us reaching the east coast. Sat. morning during field day while I was logging, my friend did contact NY and NJ on 20m CW. He started on 40m CW but seemed to have contacted everyone at that time so he switched to 20m. Later that night when the band opened up, he made a lot of contacts to Europe. No we were not the 23A or 25A site. We were only 4A.

73's

Bill

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+-----+
| Bill Starkgraf                | wps@ElSegundoCA.ncr.com |
| AT&T Global Information Solutions | (310) 524-5754         |
| El Segundo, CA                | (800) 222-8372 x5754   |
|                                |                          |
| Call: KD6UQB                  | Simi Settlers ARC      |
|                                | Simi Valley, CA        |
+-----+

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 Date: 08 Jul 1994 16:27:39 GMT  
 From: ihnp4.ucsd.edu!dog.ee.lbl.gov!agate!msuinfo!netnews.upenn.edu!  
 netnews.upenn.edu!yee@network.ucsd.edu  
 Subject: Keyers and Positive/Negative keylines  
 To: info-hams@ucsd.edu

Thanks to those who answered my queries regarding positive and negative key lines.



Now let me explain the reason why I asked. Any suggestions would be most appreciated.

I built the basic CMOS Super Keyer II awhile back. My intent is to eventually have a keyer that is as compatible as possible to any sort of radio equipment out there. The basic CMOS Super Keyer II uses a 2N2222 (?) for a positive key line.

I reasoned that there are several possibilities out there:

- 1) the to the rig could be either a phone or a phono jack.
- 2) the rig could be positive or negative key line
- 3) an external power supply may or may not be available.
- 4) ????

For possibility 1, I put in phono and phone jacks when I originally built the unit.

For possibility 2: When I originally built the unit, I installed a DPDT switch for the purpose of switching between the two types of key lines. I built the MOSFET level converters (both positive and negative) in an old QST article. The positive was built on the off chance there is a rig out there that has a positive key line but draws a lot of current. These were built over the last two nights and tested. I have not yet been put into the keyer since I need to purchase a 2P3T switch. I would prefer to use the DPDT switch as I have plenty of them but the both ends of a nine volt battery needs to be switched so that I have +9V and -9V depending upon which level converter is on line. Further, I figured out the I need to use a switch on the output of the two level converters. For some reason, the level converter not on line seems to short out the output of the other level converter if both outputs are wired together. While I hope to figure out how to avoid using a switch here, I am resigned to spending the money.

For possibility 3: I inserted an extra RCA jack to put in +12V when I built the unit. I would have preferred to use the ARRL standard MOLEX plug for this purpose but didn't want to use up the real estate on the case and I have plenty of RCA plugs lying around. My plan is to use a 1N400x (i.e. whichever I happen to have lying around) in case the polarity of the external power supply is screwed up. From the looks of it, the +9V is not critical so I will either use a 7810 or a crowbar IC to power the positive level converter. A 7805 will be used to power the keyer itself. The -9V for the is a bit more difficult but according to Horowitz and Hill, I can use a MAX632 (?) to get -12V. Unfortunately, I have no experience in using a switching regulator. I am hoping that the voltage drop due to the 1N400x will not screw up the MAX632; I don't have the data sheet. Hopefully, the

output of a few hundred mils will be all that I need. I suppose I'll need some sort of relay to switch between the internal and the external power but I haven't even begun to figure what parts I will use.

An unexpected problem is that I started this project with a rather SMALL box and am afraid that I will run out of real estate. As it is, the box already has three layers. The lowest is the keyer circuit itself. The highest is the AA battery holder glued to the top of the box. I am hoping that I can squeeze the level converters in the middle. The 9V battery is squeezed on the side of the box. I have no idea where I can put the power supply circuits.

--

Medical Image Processing Group		73 de Conway Yee, N2JWQ
411 Blockley Hall		EMAIL : yee@mipg.upenn.edu
423 Guardian Drive		TELEPHONE : 1 (215) 662-6780
Philadelphia, PA 19104-6021 (USA)		FAX : 1 (215) 898-9145

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Date: Fri, 8 Jul 1994 04:35:24 GMT  
From: ihnp4.ucsd.edu!library.ucla.edu!europa.eng.gtefsd.com!uhog.mit.edu!news.media.mit.edu!news.media.mit.edu!sro@network.ucsd.edu  
Subject: Legal question  
To: info-hams@ucsd.edu

No problemo. If you can order the delivery of a pizza by phone patch, you can order the delivery of a message.

Who's paying for the pager calls, anyway? There are "pagers" that work on ham radios, by the way.

--Shawn

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Date: Fri, 8 Jul 94 12:27:45 GMT  
From: ihnp4.ucsd.edu!swrinde!howland.reston.ans.net!torn!nott!dgbt!clark.dgim.doc.ca!news@network.ucsd.edu  
Subject: Radios for Emergency Use  
To: info-hams@ucsd.edu

In article <070794210011Rnf0.79b4@ham.island.net> emd@ham.island.net writes:  
>

>Assuming that you're serious (I've never seen the magazine you mention),  
>and that what you want is emergency communications, I suggest you use a  
>portable cellular telephone - since you don't need any special license,

>can talk directly to public safety agencies, and presently have coverage  
>in most of North America as well.

>

Well my friend, I live in Ottawa Ontario, which has close to a million people in the surrounding area. If I drive North for 30 minutes I can go do a day hike and be out of cellular phone range for most of the day. Cellular phone coverage is for areas where people are, not the backcountry. There may be coverage in most of the U.S. but most of Canada has no coverage. There are major roads where you can drive for four hours between the spots of cellular coverage. Try using that cellular phone on any of the rivers in Canada's north. An earlier thread on the net was "is there anywhere in the continental U.S. that is more than 10 miles from a road". We have lots of places that are over 500 miles from the nearest road. THAT'S BACKCOUNTRY!!!!!!

>If you're a ham, you probably already have a portable VHF or UHF radio,  
>most of which are reasonably compact - maybe 1 X 2 X 6, and hams often  
>have repeaters which greatly extend the range of the radio, as well as  
>allowing, in many cases, autopatches (self dialled telephone  
>interconnects) to the telephone system.

Same problem, but not as bad. VHF and UHF radios tend to be "line of sight". Try picking up that repeater as you canoe down that steep canyon.

-----  
Date: Fri, 8 Jul 1994 12:31:12 GMT  
From: spsgate!mogate!newsgate!news@uunet.uu.net  
Subject: twin diode mixer article: GOT IT, THANKS  
To: info-hams@ucsd.edu

In article <1994Jul6.164601.8316@newsgate.sps.mot.com> David DiCarlo,  
r14793@waccvm.sps.mot.com writes:

>Does anyone have an archive of Ham Radio that includes the Oct. 1978  
>issue where Jim Dietrich WA0RDX had an article entitled "Twin-Diode  
>Mixer" published? I have no local source (Austin, TX) and would  
>gladly pay copying and shipping expenses.

I got a copy of the article yesterday. Many thanks to all who replied.

--Dave

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Date: 8 Jul 1994 05:52:44 -0700  
From: nnntp.crl.com!crl3.crl.com!not-for-mail@decwrl.dec.com  
To: info-hams@ucsd.edu

References <2vg80k\$fe8@umcc.umcc.umich.edu>, <fn\$6kiubGEs0066yn@access.digex.net>,



-----  
Date: 8 Jul 1994 06:14:44 -0700  
From: nnntp.crl.com!crl3.crl.com!not-for-mail@decwrl.dec.com  
To: info-hams@ucsd.edu

References <1994Jul6.121437.1@woods.uml.edu>,  
<773527731.27snx@n2ayj.overleaf.com>, <1994Jul7.153925.1@woods.uml.edu>m  
Subject : Re: Copying CW, and why it's friendlier than phone

I do mobile CW and everything is copied in the head.

Permit me to make a few suggestions when you work a mobile CW station:

When answering a CQ from a /M CW station, send your call more than once. I get frustrated when someone only sends their call once and I miss it.

Use common abbreviations. Not being able to write it down, if I am unfamiliar with the abbreviation, it just flies right on by.

Don't run everything together. Once again, I can't go back and attempt to decipher what was sent.

My commute is about an hour long and I work 40 CW in the morning (about 6 AM CST) and 20 CW in the evening (about 4:30 PM CST).

Give me a call if you hear me!

Smitty, NA5K/M

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Date: 8 Jul 1994 11:05:17 -0400  
From: ihnp4.ucsd.edu!usc!howland.reston.ans.net!news.intercon.com!news1.digex.net!  
digex.net!not-for-mail@network.ucsd.edu  
To: info-hams@ucsd.edu

References <2vg80k\$fe8@umcc.umcc.umich.edu>, <fn\$6kiubGEs0066yn@access.digex.net>,  
<2visoe\$hjl@umcc.umcc.umich.edu>  
Subject : Re: Does CW as a pre-req REALLY Work?

In article <2visoe\$hjl@umcc.umcc.umich.edu>, Matthew Rupert wrote:  
>

> The influx of "Tech No-Code" (like me) certainly sours the old-timers

> who think that Extra Class is the ONLY class, and 20 WPM is too slow  
> (add a ! on the end)  
>

Matt,

I got the cold shoulder from many fellow Generals when I went straight for  
the General ticket 17 years ago (since I hadn't come up through the 'ranks').  
I set my eyes on specific priviledges and went for it.

Andy

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End of Info-Hams Digest V94 #763  
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